## **PATENT COOPERATION TREATY**

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 05511193W001	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.						
International application No.	International filing date (day/month/yea	(Earliest) Priority Date (day/month/year)						
PCT/JP2005/020397	01/11/2005	10/11/2004						
Applicant								
CANON KABUSHIKI KAISHA								
This international search report has been according to Article 18. A copy is being tra		Authority and is transmitted to the applicant						
This international search report consists o	of a total of4 sheets.  a copy of each prior art document cited in	in this report.						
Basis of the report  A Mith record to the learning that	international gases was regarded at A = 4	he besig of						
	international search was carried out on tl upplication in the language in which it wa							
a translation of the	e international application into rnished for the purposes of international	, which is the language						
b. With regard to any nucleo	otide and/or amino acid sequence disc	closed in the international application, see Box No. I.						
2. Certain claims were four	Certain claims were found unsearchable (See Box No. II)							
3. Unity of invention is lack	king (see Box No III)							
4. With regard to the title,								
X the text is approved as su	* ''							
the text has been establish	hed by this Authority to read as follows:							
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5. With regard to the abstract,								
the text is approved as sul	• • • • • • • • • • • • • • • • • • • •							
		uthority as it appears in Box No. IV. The applicant I search report, submit comments to this Authority						
6. With regard to the drawings,								
	ublished with the abstract is Figure No	2						
X as suggested by the	• •	to suggest a figure						
<b>=</b>	s Authority, because the applicant failed s Authority, because this figure better cha							
	published with the abstract							

Form PCT/ISA/210 (first sheet) (April 2005)

International application No.

#### INTERNATIONAL SEARCH REPORT

PCT/JP2005/020397

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A recording head including outlets (100a,100b) disposed in a staggered pattern so that the distances from an ink inlet (500) to the outlets differ alternately for adjacent outlets. A recording head includes an outlet group including a plurality of outlets on at least one side of an ink inlet. The outlet group includes first outlets (100a) and second outlets (100b), wherein the distance from the ink inlet to the first outlets differs from the distance from the ink inlet to the second outlets. First recording elements (400a) and second recording elements (400b) including heat resistors are provided. The first recording elements and second recording elements correspond to the first outlets and the second outlets, respectively, and are disposed in first ink channels and second ink channels, respectively. The first recording elements are rectangular, whereas the second recording elements are substantially square.

## INTERNATIONAL SEARCH REPORT

International application No PCT/JP2005/020397

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A. CLASSI	FICATION OF SUBJECT MATTER B41J2/14		·
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC	
B. FIELDS	SEARCHED		
Minimum do	ocumentation searched (classification system followed by classification $B41J$	on symbols)	
	ion searched other than minimum documentation to the extent that s		
	ata base consulted during the international search (name of data baternal, WPI Data	se and, where practical,	search terms used)
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.
A	EP 1 308 284 A (HEWLETT-PACKARD (7 May 2003 (2003-05-07) paragraphs '0050! - '0056!; figur		1-8
A	EP 0 691 204 A (HEWLETT-PACKARD ( 10 January 1996 (1996-01-10) abstract; figure 7	COMPANY)	1-8
A	US 2003/117462 A1 (CLELAND TODD A 26 June 2003 (2003-06-26) paragraph '0043!; figure 5	N ET AL)	1-8
Furth	er documents are listed in the continuation of Box C.	X See patent fam	ily annex.
<ul> <li>Special ca</li> </ul>	tegories of cited documents:	*T* later document publi	shed after the international filing date
*A' document defining the general state of the art which is not considered to be of particular relevance  *E' earlier document but published on or after the international filter date.  *A' document defining the general state of the art which is not cited to understand the principle or theory underlying invention.  *A' document defining the general state of the art which is not cited to understand the principle or theory underlying invention.  *A' document defining the general state of the art which is not cited to understand the principle or theory underlying invention.  *A' document defining the general state of the art which is not cited to understand the principle or theory underlying invention.			
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*O* documer other m	nt referring to an oral disclosure, use, exhibition or	document is combine	ed to involve an inventive step when the ned with one or more other such docu- nation being obvious to a person skilled
later tha	in the priority date claimed	*&* document member of	
	tual completion of the international search	Date of mailing of th	e international search report
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rang any ilk	European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Kulhanek	. , P

## **INTERNATIONAL SEARCH REPORT**

Information on patent family members

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